

## Product datasheet for **RC214247**

### **PDE8B (NM\_001029851) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_001029851) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC214247 representing NM\_001029851  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCA  
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC  
 CGACGCCGCCAGCCATCCCCCGAGCGCGCGTCGGGACCCCCAGCGTAGCCCGCGTCCGCAGGGCC  
 CGCACCGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGCAGCCCCCGCGGACCACCAGCAGGGGCCGGA  
 GGCGCCACTGCTGCAGCAGCGCCGAGGCGGAGACTCAGACCTGCTACACCAGCGTGAAGCAGGTGTCTTC  
 TGCGGAGGTGCGCATCGGGCCATGAGACTGACGCAGGACCCTATTAGGTTTTGCTGATCTTTGCAAAG  
 GAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAATATTGCTCGGA  
 CTCAGAGTCAGCCCTTGAATGCTTTCTTGATAAGCATCATGAAATTATTGTAATTGATCATAGACAAAC  
 TCAGAACTTCGATGCAGAAGCAGTGTGCAGGTCGATCCGGGCCACAAATCCCTCCGAGCACCGGTGATC  
 CTGCGAGTGGTTTTGCGGAGTATCGGATGACCATGAAGAGGCGTCAGTCCCTCCTCTCTCCACGCAGGCT  
 TCAACAGGAGATTTATGGAGAATAGCAGCATAATTGCTTGCTATAATGAACTGATTCAAATAGAACATGG  
 GGAAGTTCGCTCCAGTTCAAATTACGGGCCTGTAATTCAGTGTTTACAGCATTAGATCACTGTCATGAA  
 GCCATAGAAAATAACAAGCGATGACCACGTGATTCAGATTCACAAGATTCATCGTGATTCAGGAGACAATT  
 CTCAGACAGAGCCTATTCATTCAGATATAAGAACAGGAGGAAAGAGTCCATTGACGTGAAATCGATATC  
 ATCTCGAGGCAGTGATGCACCAAGCCTGCGAATCGTTCGATCCGTCCATGGCGAGGATCCACTCCATG  
 ACCATCGAGGCTCCCATCACAAGGTTATAAATAATCAATGCAGCCCAAGAAAACAGCCCAAGTACAG  
 TAGCGGAAAGCCTTGACAGAGTTCTAGAGATTTACGGACCACAGAAGTACTCCCTCAGTGGGTAC  
 CAAAGATGAAGATCCCCACACCAGTGATCTTGTGGAGGCTGATGACTGACGGCTTGAGAAGACTGTCA  
 GAAACAGGATATGTGTTACTAAGAATGTGACACAGAGTCACAGTCACCTTGCAATGCCAATAACCATCA  
 ATGATGTTCCCTTGTATCTCTCAATTAATGAGGAGAGTTGGGACTTCAACATCTTTGAATT  
 GGAAGCCATTACGCATAAAAGGCCATTGGTTTATCTGGGCTTAAAGGCTTCTCTCGGTTGGAGTATGT  
 GAATTTTTAAACTGTTCTGAAACCACTCTCGGGCCTGGTTCCAAGTGATCGAAGCCAACCTACCCTCT  
 CCAATGCCTACCACAACCTCACCATGCTGCCGACGCTCTGCACGCCACCGCTTCTTTCTTGAAAGGA  
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 CTGCTGTTCTGGAGAGTACCACACCGCCTGGCCTTCCAGCTCACGGTCAAGGACACCAATGCAACAT  
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 GAGATGACAAAACACTTTGAACATGTGAATAAGTTTGTGAACAGCATCAACAAGCCAATGGCAGCTGAGA  
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 CATGATGATTAAGTGTGCTGACGTGGCCAAACCATGCCGCCCTTGACCTGTGCATTGAATGGGCTGGG  
 AGGATCTCTGAGGAGTATTTGCACAGACTGATGAAGAGAAGAGACAGGGACTACCTGTGGTGATGCCAG  
 GTTTGACCGGAATACCTGTAGCATCCCCAAGTCTCAGATCTCTTTCATTGACTACTTCATAACAGACAT  
 GTTTGATGCTTGGGATGCCTTTGCACATCTGCCAGCCCTGATGCAACATTTGGCTGACAACATAAACAC  
 TGAAGACACTAGATGACCTAAAGTGCAAAAGTTGAGGCTTCCATCTGACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214247 representing NM\_001029851  
Red=Cloning site Green=Tags(s)

MGCAPSIHVSQSGVIYCRDSESSPRQTTSVSQGAAPLPGLFVQTDAADAIPPSRASGPPSVARVRRARTELGSGSSAGSAAPAATTSRGRRRHCCSSAEAEQTCTYTSVKQVSSAEVRIGPMRLTQDPIQVLLIFAKEDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVILAVVSRVSDDHAEASVLP LLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCHEAIEITSDDHVIQIHKIHRDSDNSQTEPHSFYKNRRKESIDVKSISRRGSDAPSLQNRYPSPMARIHSM TIEAPITKVINIINAAQENSPVTVAEALDRVLEILRTTELYSPQLGKDEDPHSTDLVGGMLTDGLRRLS GNEYVFTKNVHQSHSLAMPITINDVPPCISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSTRFGVC EFLNCSETTLRAWFQVIEANYHSSNAYHNSTHAADV LHATAFFLGKERVKGSLDQLDEVAALIAATVHDV DHPGRTNSFLCNAGSELAVLYNDTAVLESHHTALAFQLTVKDTKCNI FKNIDRNHYRTL RQAIIDMVLAT EMTKHFHVNFVNSINKPMAAEIEGSDCECNPAGKNFPENQILIKRMMIKCADVANPCRPLDLCIEWAG RISEEYFAQTDEEKRQGLPVVMPVDFDRNTCSIPKSQISFIDYFITDMFDAWDAFAHLPALMQHLADNYKH WKTLDLCKKSLRLPSDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001029851

ORF Size: 2364 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001029851.4](#)

**RefSeq Size:** 4114 bp

**RefSeq ORF:** 2367 bp

**Locus ID:** 8622

**UniProt ID:** [O95263](#)

**Cytogenetics:** 5q13.3

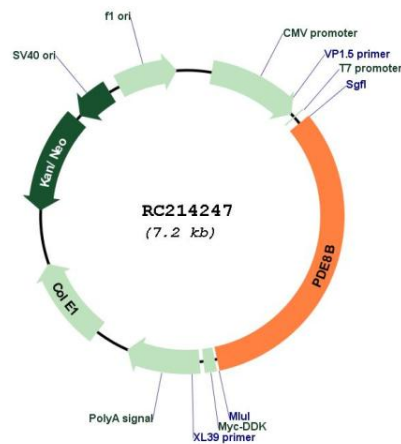
**Protein Families:** Druggable Genome

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**MW:** 88 kDa

**Gene Summary:** The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]

### Product images:



Circular map for RC214247